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Patent Application

Inventor(s)	Arthur Robert Calderbank Ayman Naguib Nambirajan Seshadri	Case Name	Calderbank 19-6-42
Filing Date	4/28/1999	Serial No.	09/300494
Examiner	Chieh M Fan	Group Art Unit	2634
Title	Combined Channel Coding and Space-Block Coding in a Multi-Antenna Arrangement		

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

AMENDMENT

In response to an Office action dated April 10, 2001 please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 1, replace the title paragraph beginning at line 1 with:--

Combined Channel Coding and Space-Time Block Coding in a Multi-Antenna Arrangement --;

Page 1, replace the paragraph beginning at line 14 with:--

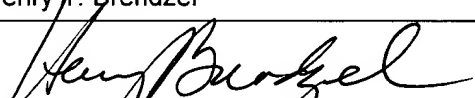
- U.S. Application 09/114,838, filed July 14, 1998, titled "Combined Array Processing and Space-Time Coding," which is based on U.S. Provisional Application No. 60/052,689, filed July 17, 1997.--;

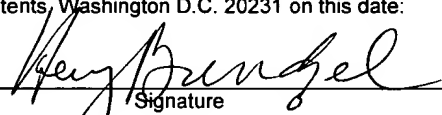
Page 4, replace the paragraph beginning at line 9 with:

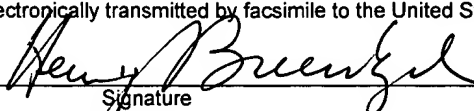
In the aforementioned 09/114,838 application, an arrangement is disclosed that provides enhanced performance which is realized by employing a perspective that combines array signal processing with channel coding. Specifically, antennas at the transmitter are partitioned into small groups, and individual space-time codes are used to transmit information from each group of antennas. At the receiver, an individual space-time code is decoded by a linear array processing technique that suppresses signals

TRANSMITTAL FORM <small>to be used for all correspondence after initial filing)</small>		Complete if Known	
		Application Number	09/300494
		Filing Date	4/28/1999
		First Named Inventor	Arthur Robert Calderbank
		Examiner Name	Chieh M Fan
		Group/Art Unit	2634
Total number of pages in this Submission: this page, plus 11		Attorney Docket ID	Calderbank 19 642

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> Postcard(s)
<input checked="" type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Small Entity Statement
<input type="checkbox"/> Affidavit(s)/Declaration(s)	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Request for a Refund
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Petition Routing Slip (TO/SB/69) and Accompanying Petition	<input type="checkbox"/> After Allowance Communication to group
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> To Convert a Provisional Application	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Certified Copy of Priority document(s)	<input type="checkbox"/> Power of Attorney, Revocation or Change of Correspondence Address	<input type="checkbox"/> Appeal Communications to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<input type="checkbox"/> Express Abandonment	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.2 or 1.53	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Declaration (no Missing Parts Notice)	<input type="checkbox"/> To Convert to Statutory Invention Registration	<input type="checkbox"/> Other

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual Name	Henry T. Brendzel	
Signature		Date 6/29/01

CERTIFICATE OF MAILING		
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<u>Henry Brendzel</u> Name of Person Signing	<u></u> Signature	<u>7/3/01</u> Date

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I hereby certify that this correspondence is being electronically transmitted by facsimile to the United States Patent Office:		
<u>Henry Brendzel</u> Name of Person Signing	<u></u> Signature	<u> </u> Date